



DCICN 6.2 - Introducing Cisco Data Center Networking (DCICN)

Code:	DCICN 6.2
Length:	5 days
URL:	View Online

Module 1: Network Protocols and Host-to-Host Communication Lesson 1: Describing Ethernet Lesson 2: Describing OSI and TCP/IP Models Lesson 3: Describing IPv4 and IPv6 Network Layer Addressing Lesson 4: Describing Packet Delivery on a Hierarchical Network Lesson 5: Describing the TCP/IP Transport Layer Module 2: Basic Data Center Networking Concepts Lesson 1: Describing Data Center Network Architectures Lesson 2: Describing the Cisco Nexus Family and NX-OS Lesson 3: Implementing VLANs and Trunks Lesson 4: Describing Redundant Switched Topologies Module 3: Advanced Data Center Networking Concepts Lesson 1: Describing the Routing Process on Nexus Switches Lesson 2: Describing Layer 3 First Hop Redundancy Lesson 3: Describing AAA on Nexus Switches Lesson 4: Describing ACLs on Nexus Switches Module 4: Basic Data Center Storage Lesson 1: Describing Storage Connectivity Options in the Data Center Lesson 2: Describing Fibre Channel Storage Networking Lesson 3: Describing VSANs Module 5: Advanced Data Center Storage Lesson 1: Describing Communication Between Initiator and Target Lesson 2: Describing Fibre Channel Zone Types and Their Uses Lesson 3: Describing Cisco NPV Mode and NPIV Lesson 4: Describing Data Center Ethernet Enhancements Lesson 5: Describing Fibre Channel over Ethernet Module 6: Cisco UCS Architecture Lesson 1: Describing Cisco UCS Server Hardware Components Lesson 2: Cisco UCS Physical Connectivity for a Fabric Interconnect Cluster Lesson 3: Describing the Cisco UCS Manager Interfaces Lab Outline ? Guided Lab 1: Explore IPv4 and IPv6 Addressing Guided Lab 2: Explore LAN Communication Guided Lab 3: Explore Protocol Analysis Guided Lab 4: Explore TCP and UDP Communication Guided Lab 5: Explore the Cisco NX-OS Command Line Interface Guided Lab 6: Explore Topology Discovery and Documentation Guided Lab 7: Implement VLANs and Trunks Guided Lab 8: Map a Spanning Tree and Configure Port Channels Guided Lab 9: Implement Multilayer Switching Guided Lab 10: Configure OSPF Guided Lab 11: Configure EIGRP Guided Lab 12: Configure HSRP Guided Lab 13: Configure AAA and Secure Remote Administration Guided Lab 14: Configure ACLs Guided Lab 15: Configure VSANs Guided Lab 16: Validate FLOGI and FCNS Guided Lab 17: Configure Zoning Guided Lab 18: Explore the Cisco UCS Manager GUI

Skills Gained

Upon completion of this course, you will be able to: Describe the characteristics and benefits of the Ethernet protocol. List Ethernet standardization. Describe the OSI and TCP/IP models Describe IPv4 and IPv6 network layer addressing Describe the packet delivery process Compare and contrast TCP/IP with the OSI model Examine the Cisco Data Center network architectures, the 2- and the 3-tier network design, and the spine/leaf network design. Describe Cisco Nexus products and explain basic functionalities and tools of Cisco NX-OS. Describe VLANs Describe issues with STP Describe the routing process on Nexus switches Describe Layer 3 first hop redundancy Describe and configure user security features Describe ACL object groups Describe storage connectivity options in the Data Center. Compare iSCSI, Fibre Channel, and NAS connectivity for remote server storage. Describe Fibre Channel storage networking Describe VSANs Describe communication between the initiator and target Describe Fibre Channel zone types and their uses Describe NPV and NPIV Describe data center Ethernet enhancements that provide a lossless fabric Describe Fibre Channel over Ethernet Describe the components of a Cisco UCS server Describe the Cisco UCS physical connectivity for a Fabric Interconnect cluster Describe the Cisco UCS Manager interfaces

Who Can Benefit

Network Administrators, Network Engineers, Cisco Integrators/Partners, System Engineers, Network Designers, Network Managers, Consulting Systems Engineers, Technical Solutions Architects

Prerequisites

The knowledge, skills, and attitudes that a learner is expected to have before attending this course are as follows:
Good understanding of networking protocols Good understanding of the VMware environment Basic computer literacy
Basic knowledge of Microsoft Windows operating systems Basic Internet usage skills

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